

FIG.1

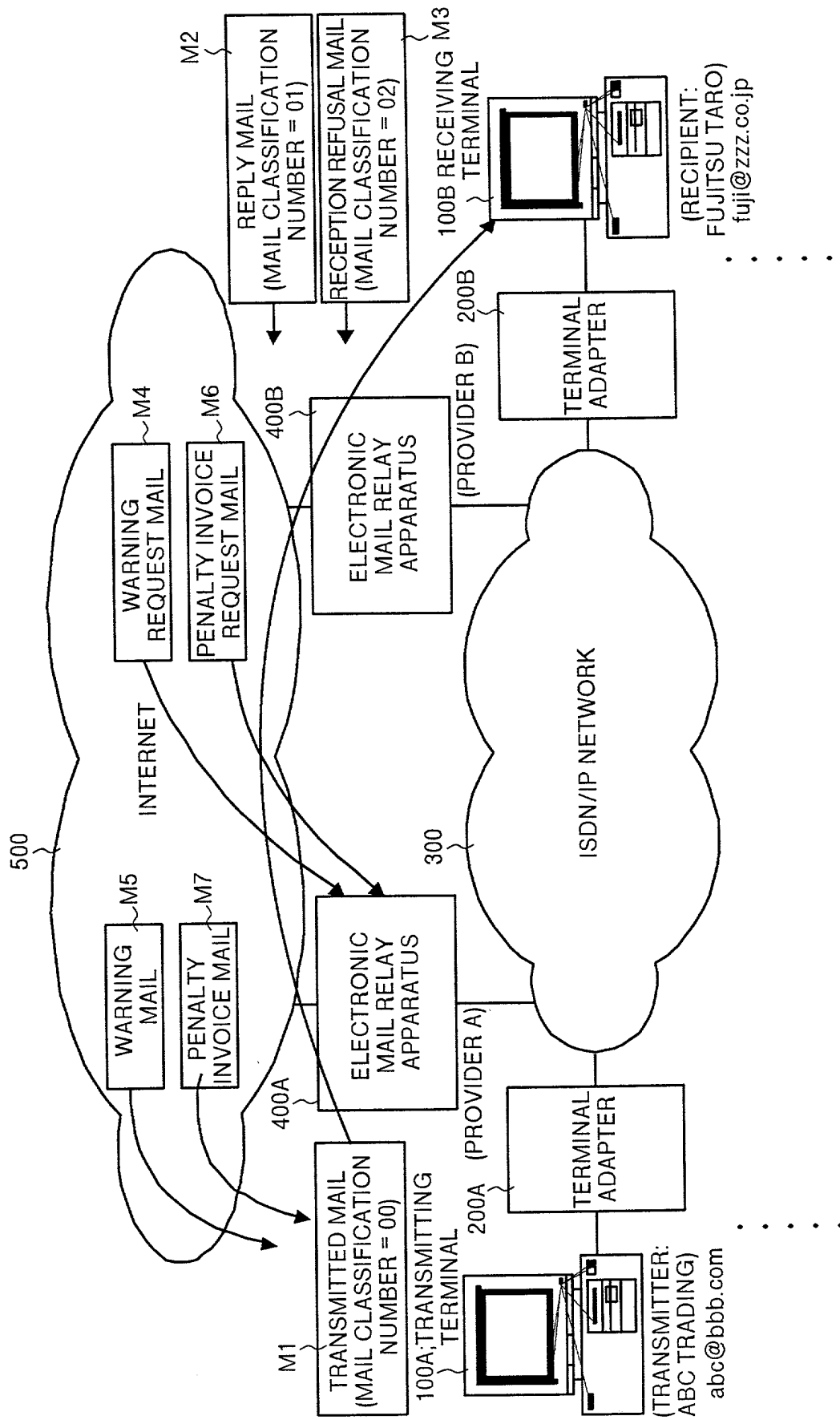


FIG.2

F1 ↘

| HEADER SECTION                       |   |                |                                  | DATA SECTION |  |
|--------------------------------------|---|----------------|----------------------------------|--------------|--|
|                                      |   |                |                                  |              |  |
| TRANSMISSION<br>SOURCE<br>IP ADDRESS | TRANSMISSION<br>DESTINATION<br>IP ADDRESS | MAIL<br>NUMBER | MAIL<br>CLASSIFICATION<br>NUMBER | MESSAGE      |  |

00: TRANSMITTED MAIL  
01: REPLY MAIL  
02: RECEPTION REFUSAL MAIL

FIG. 3

| MAIL CLASSIFICATION NUMBER | MAIL CLASSIFICATION    | LUMP FEE |
|----------------------------|------------------------|----------|
| 00                         | TRANSMITTED MAIL       | X        |
| 01                         | REPLY MAIL             | X        |
| 02                         | RECEPTION REFUSAL MAIL | ○        |

FIG.4

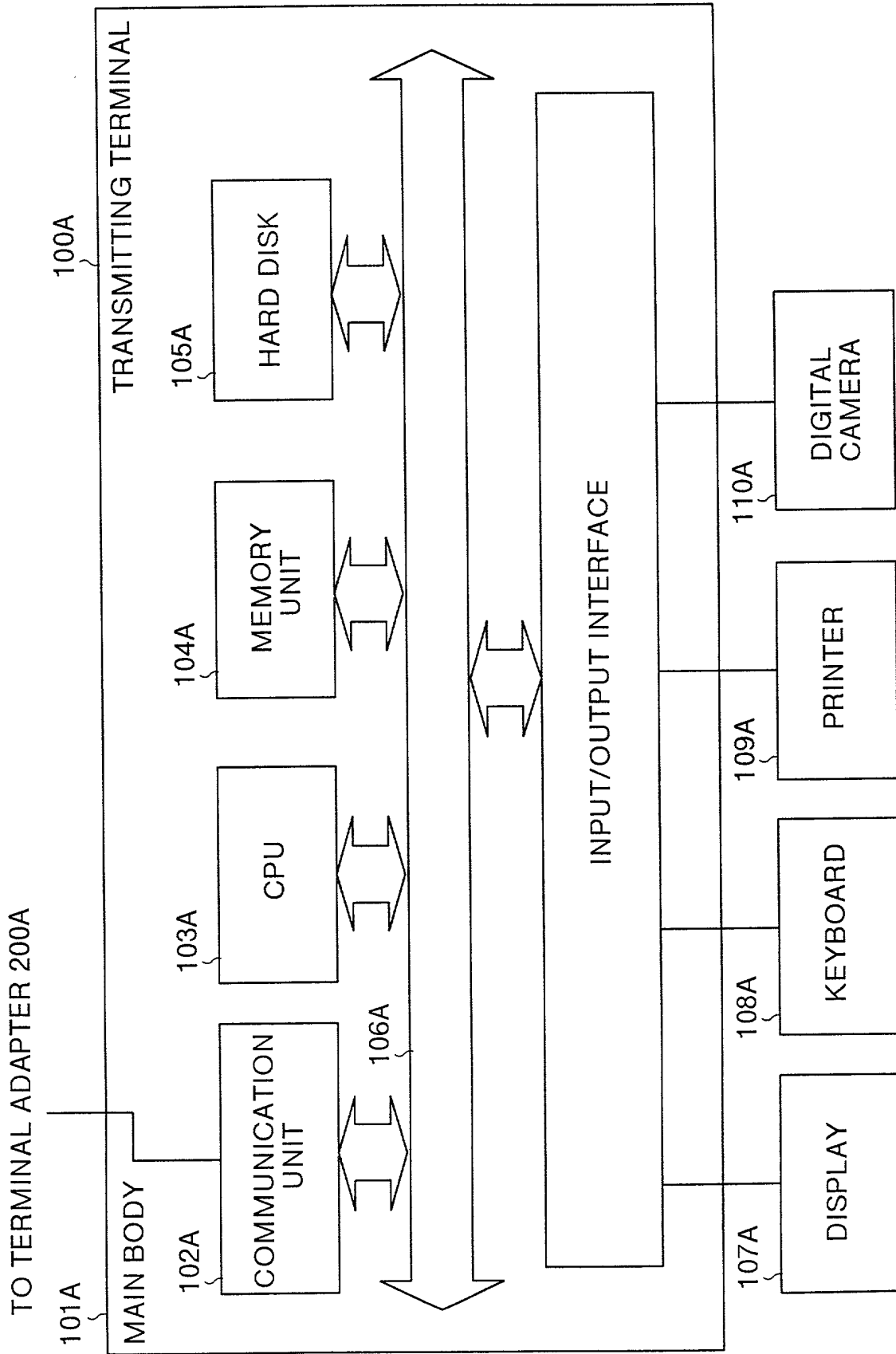


FIG. 5

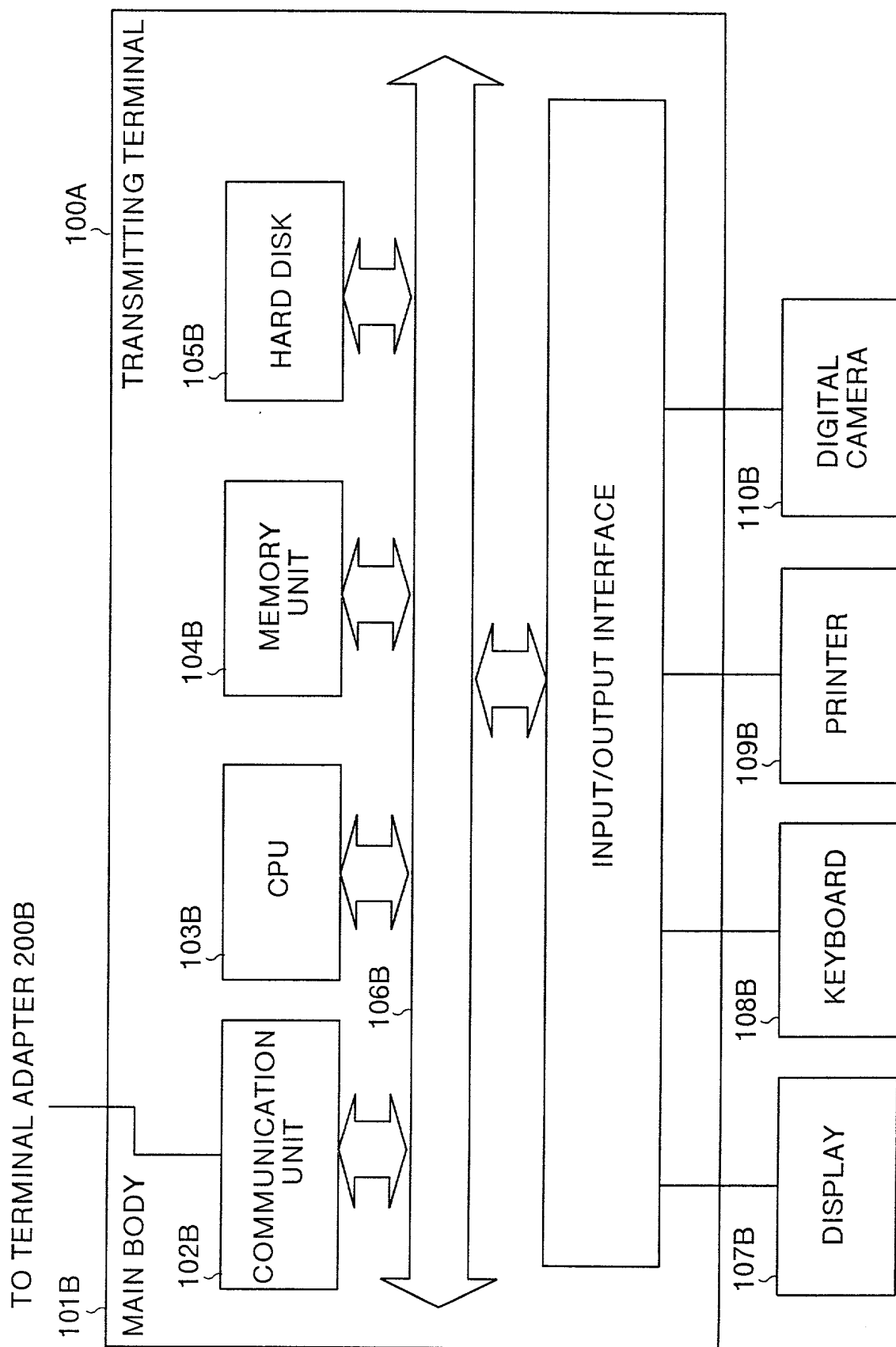


FIG.6

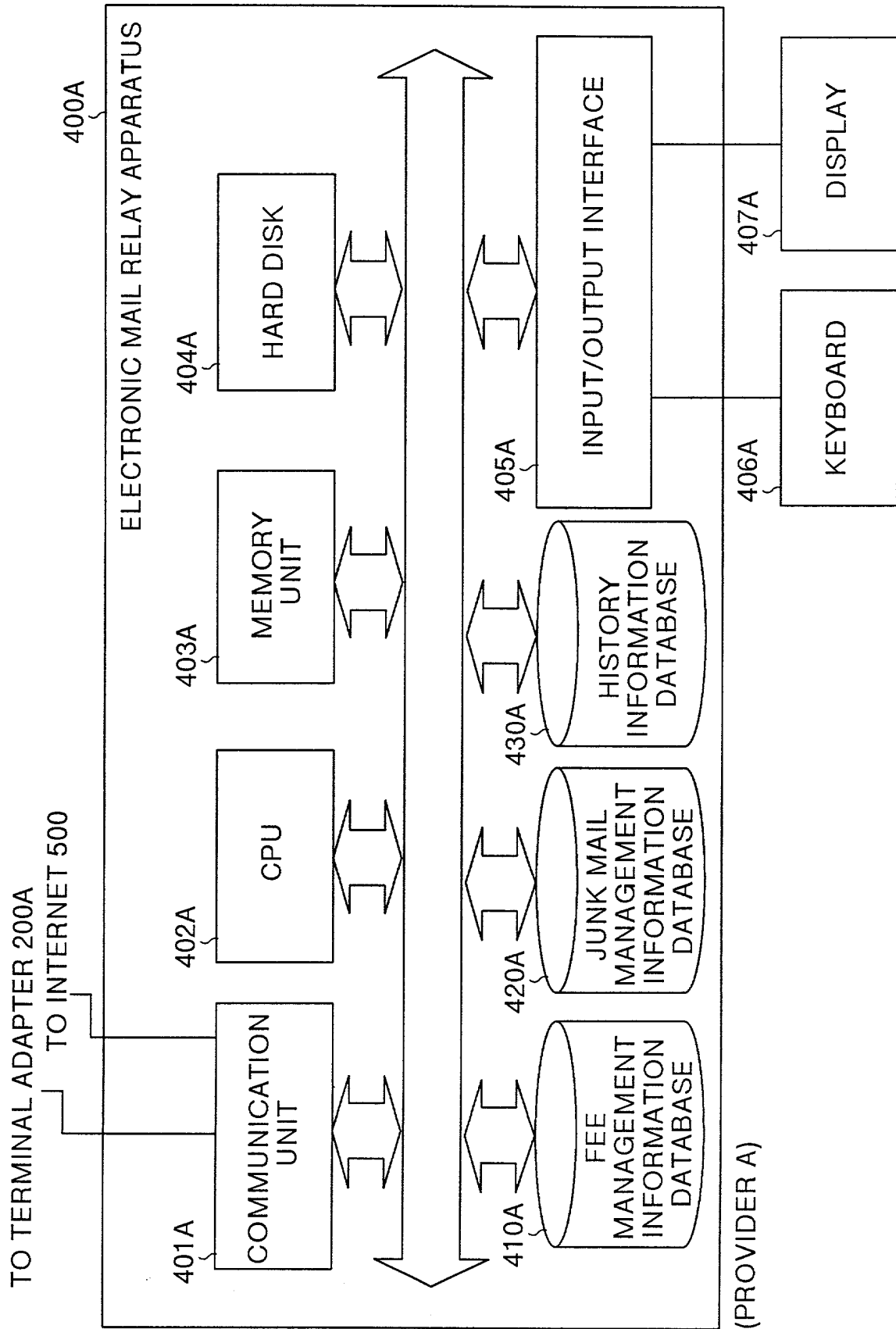


FIG.7

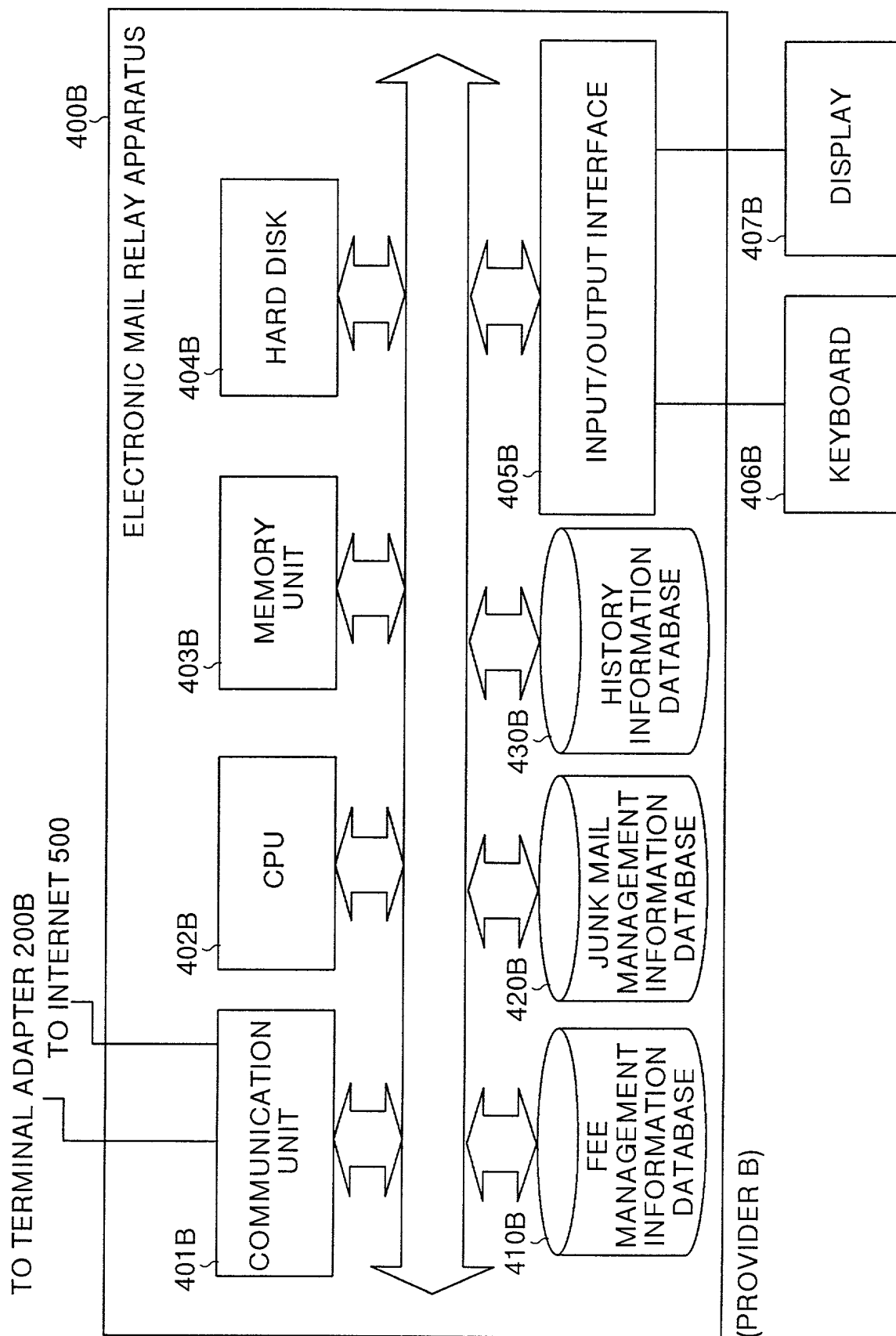


FIG.8

410A

| MEMBER      | IP ADDRESS  | MAIL NUMBER | MAIL CLASSIFICATION NUMBER | MAIL CLASSIFICATION | TRANSMISSION PACKET LENGTH | NUMBER OF BROADCASTS | TRANSMISSION SOURCE IP ADDRESS MAIL NUMBER | NUMBER OF LUMP FEES |
|-------------|-------------|-------------|----------------------------|---------------------|----------------------------|----------------------|--|---------------------|
| ABC TRADING | abc@bbb.com | 001         | 00                         | TRANSMITTED MAIL    | 10                         | 100                  |  | 70                  |

410B

| MEMBER        | IP ADDRESS     | MAIL NUMBER | MAIL CLASSIFICATION NUMBER | MAIL CLASSIFICATION    | TRANSMISSION PACKET LENGTH | NUMBER OF BROADCASTS | TRANSMISSION SOURCE IP ADDRESS MAIL NUMBER | NUMBER OF LUMP FEES |
|---------------|----------------|-------------|----------------------------|------------------------|----------------------------|----------------------|--|---------------------|
| FUJITSU TAROU | fuji@zzz.co.jp | 003         | 02                         | RECEPTION REFUSAL MAIL | 11                         | 1                    | abc@bbb.com-001                            | 0                   |
| NIPPON ICHIRO | niho@zzz.co.jp | 005         | 02                         | RECEPTION REFUSAL MAIL | 11                         | 1                    | abc@bbb.com-001                            | 0                   |



FIG.9

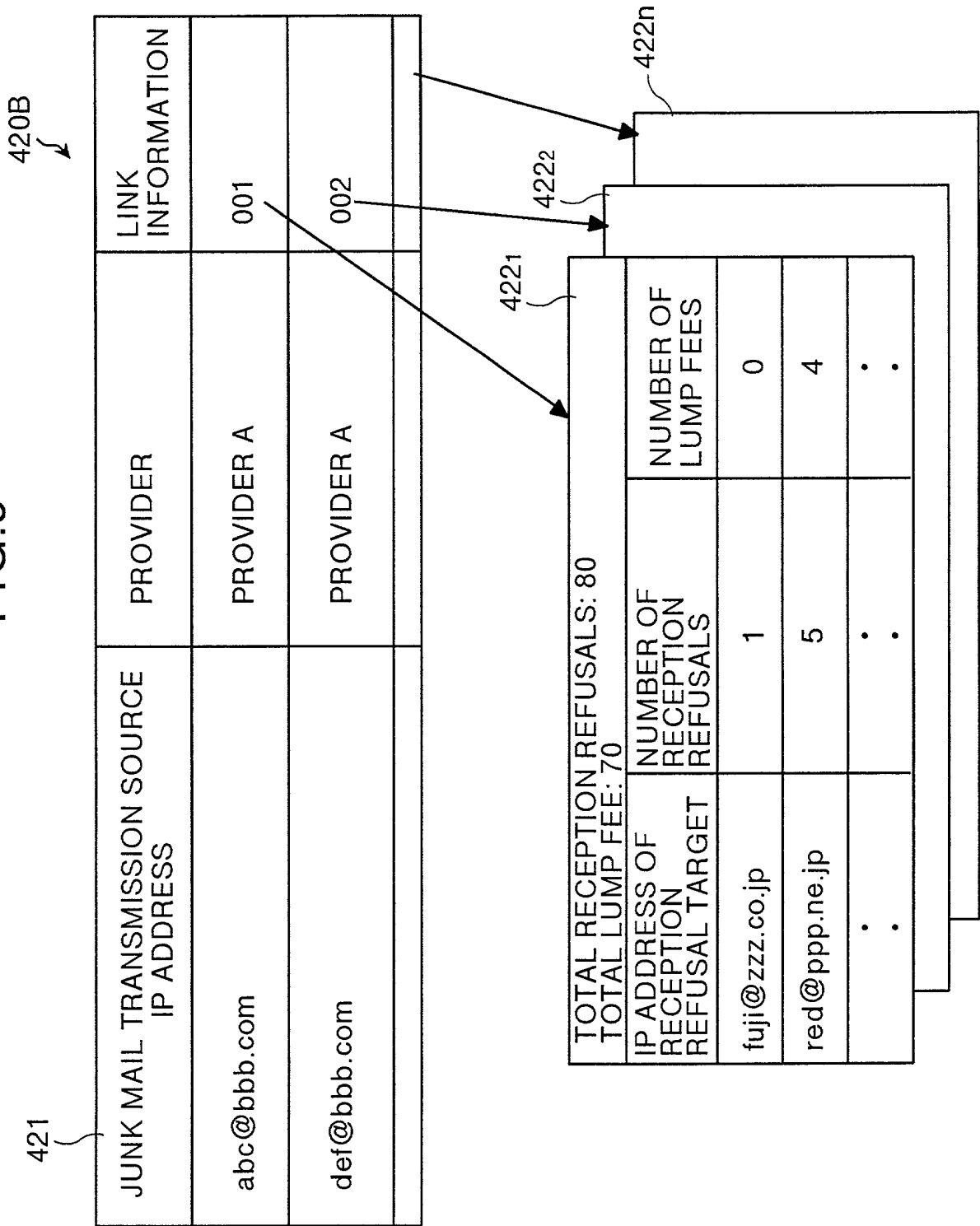


FIG.10

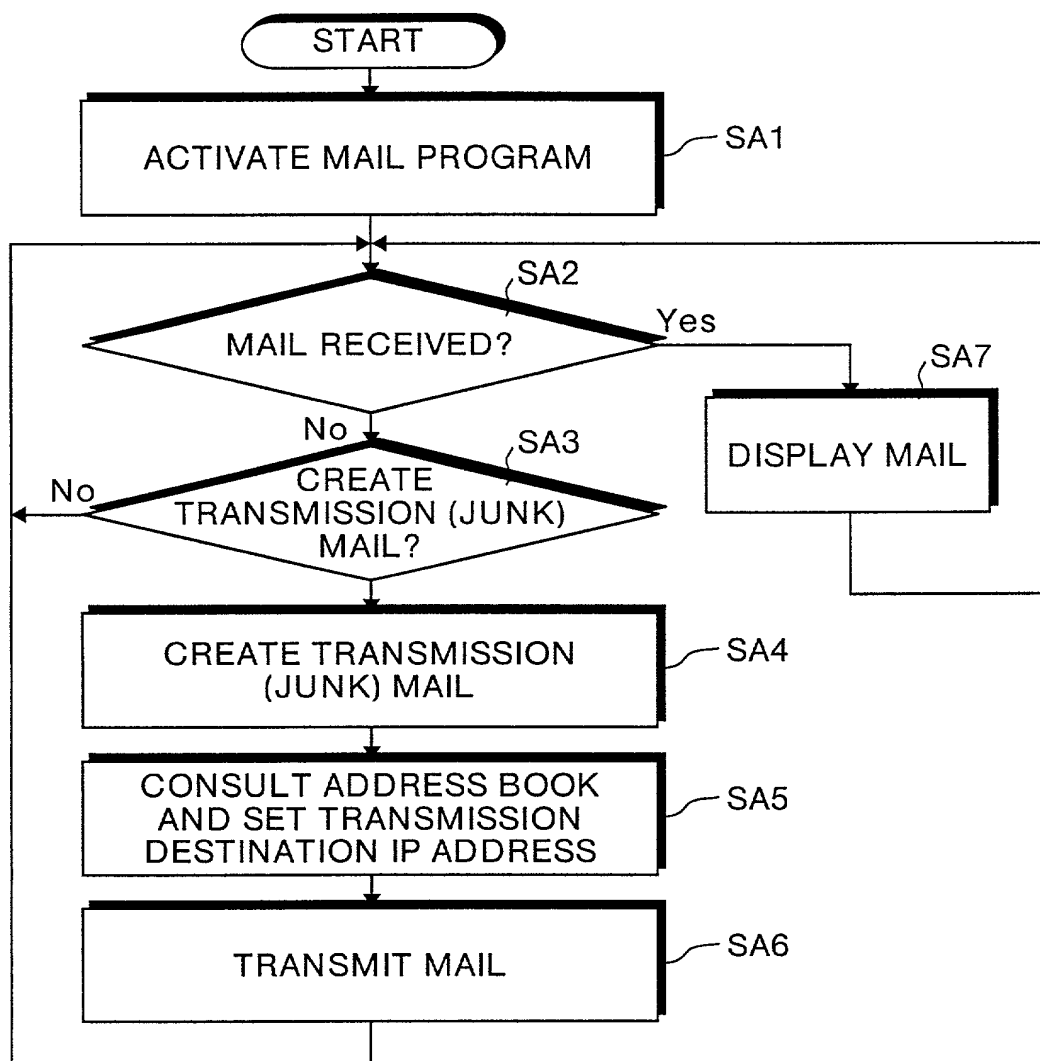


FIG.11

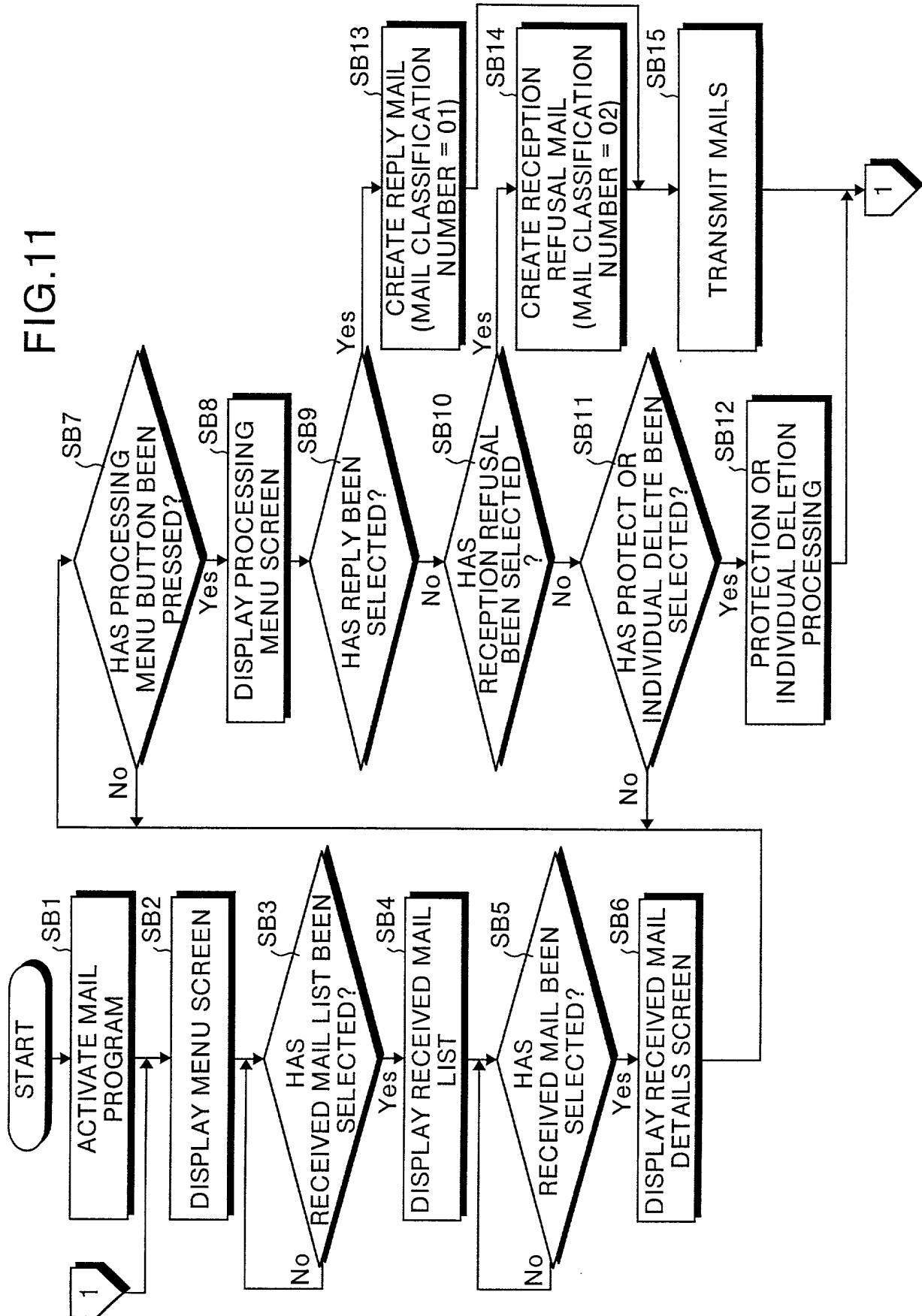


FIG. 12

```
graph TD
    Start([START]) --> SC1[ACTIVATE RELAY PROGRAM]
    SC1 --> SC2{MAIL RECEIVED?}
    SC2 -- No --> SC2
    SC2 -- Yes --> SC3{TRANSMITTED MAIL?}
    SC3 -- Yes --> SC6[STORE FEE MANAGEMENT DATA IN FEE MANAGEMENT INFORMATION DATABASE]
    SC3 -- No --> SC4{REPLY MAIL?}
    SC4 -- Yes --> SC7[STORE MEMBER'S HISTORY DATA IN HISTORY INFORMATION DATABASE]
    SC4 -- No --> SC5[WARNING/PENALTY INVOICE MAIL TRANSMISSION PROCESSING]
    SC6 --> SC7
    SC7 --> SC8[RELAY MAIL TO TRANSMISSION DESTINATION IP ADDRESS]
    SC8 --> SC2
```

The flowchart illustrates the process of the relay program. It begins with a **START** terminal, leading to the **ACTIVATE RELAY PROGRAM** process (SC1). The process then enters a loop starting with the decision **MAIL RECEIVED?** (SC2). If the answer is **No**, the flow loops back to the start of the SC2 decision. If the answer is **Yes**, it proceeds to the decision **TRANSMITTED MAIL?** (SC3). If the answer to SC3 is **Yes**, the process is **STORE FEE MANAGEMENT DATA IN FEE MANAGEMENT INFORMATION DATABASE** (SC6). If the answer to SC3 is **No**, it proceeds to the decision **REPLY MAIL?** (SC4). If the answer to SC4 is **Yes**, the process is **STORE MEMBER'S HISTORY DATA IN HISTORY INFORMATION DATABASE** (SC7). If the answer to SC4 is **No**, the process is **WARNING/PENALTY INVOICE MAIL TRANSMISSION PROCESSING** (SC5). From SC6, the flow proceeds to SC7. From SC7, the process is **RELAY MAIL TO TRANSMISSION DESTINATION IP ADDRESS** (SC8), which then loops back to the start of the SC2 decision.

FIG.13

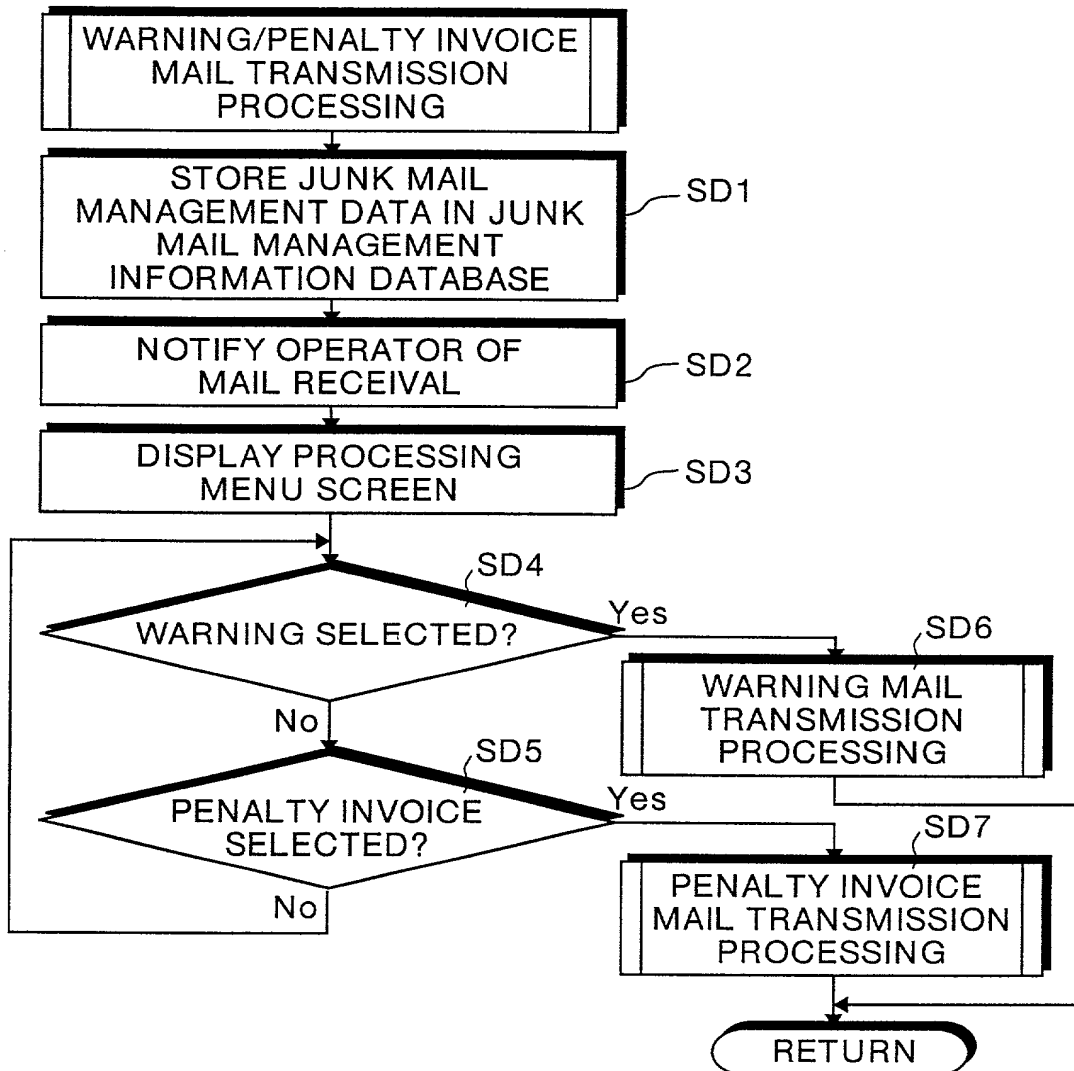


FIG.14

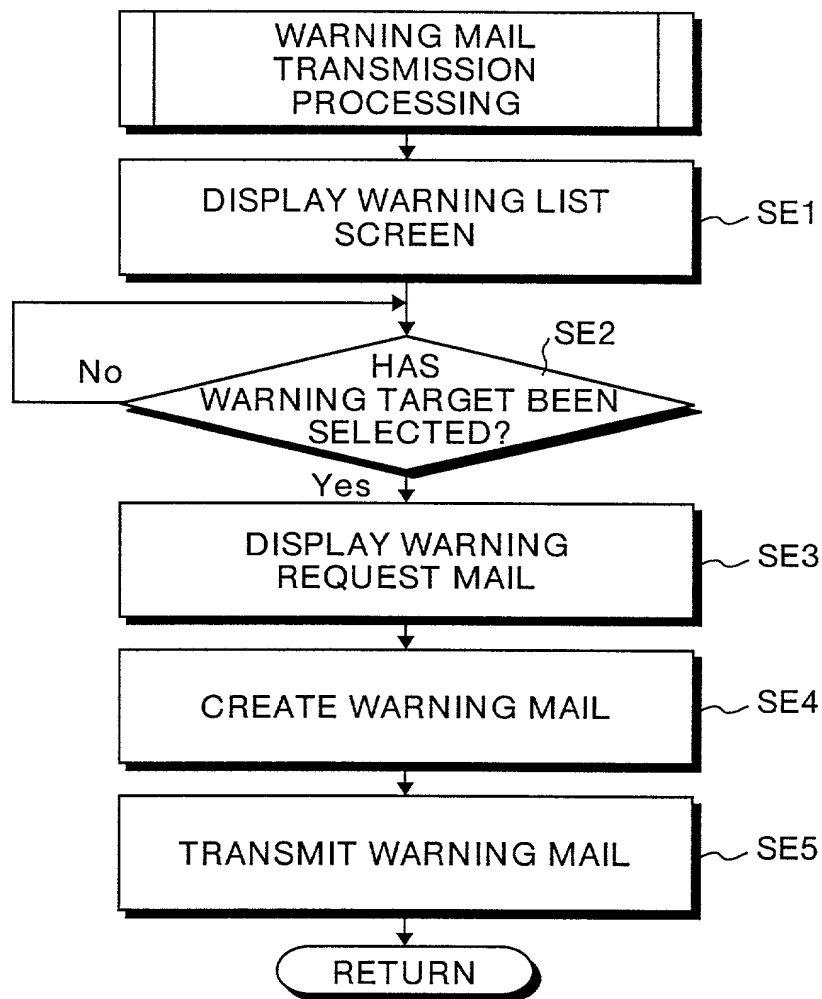


FIG.15

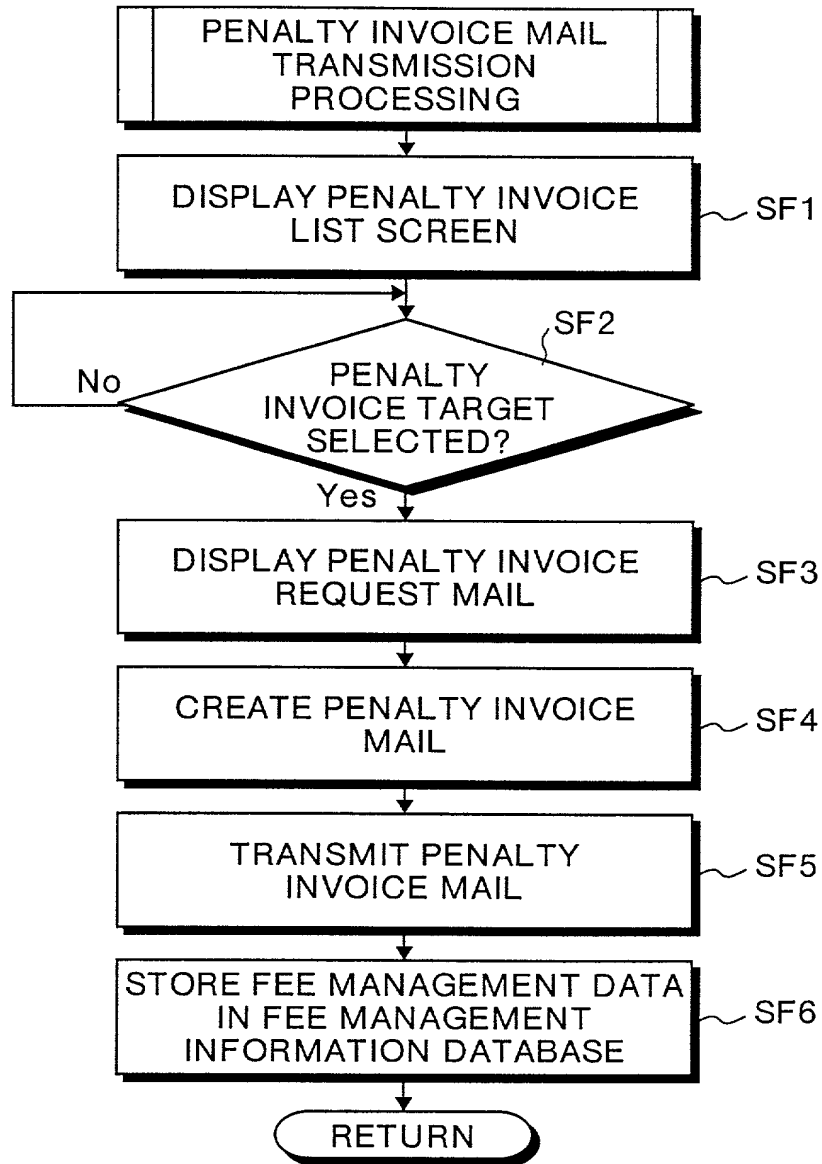
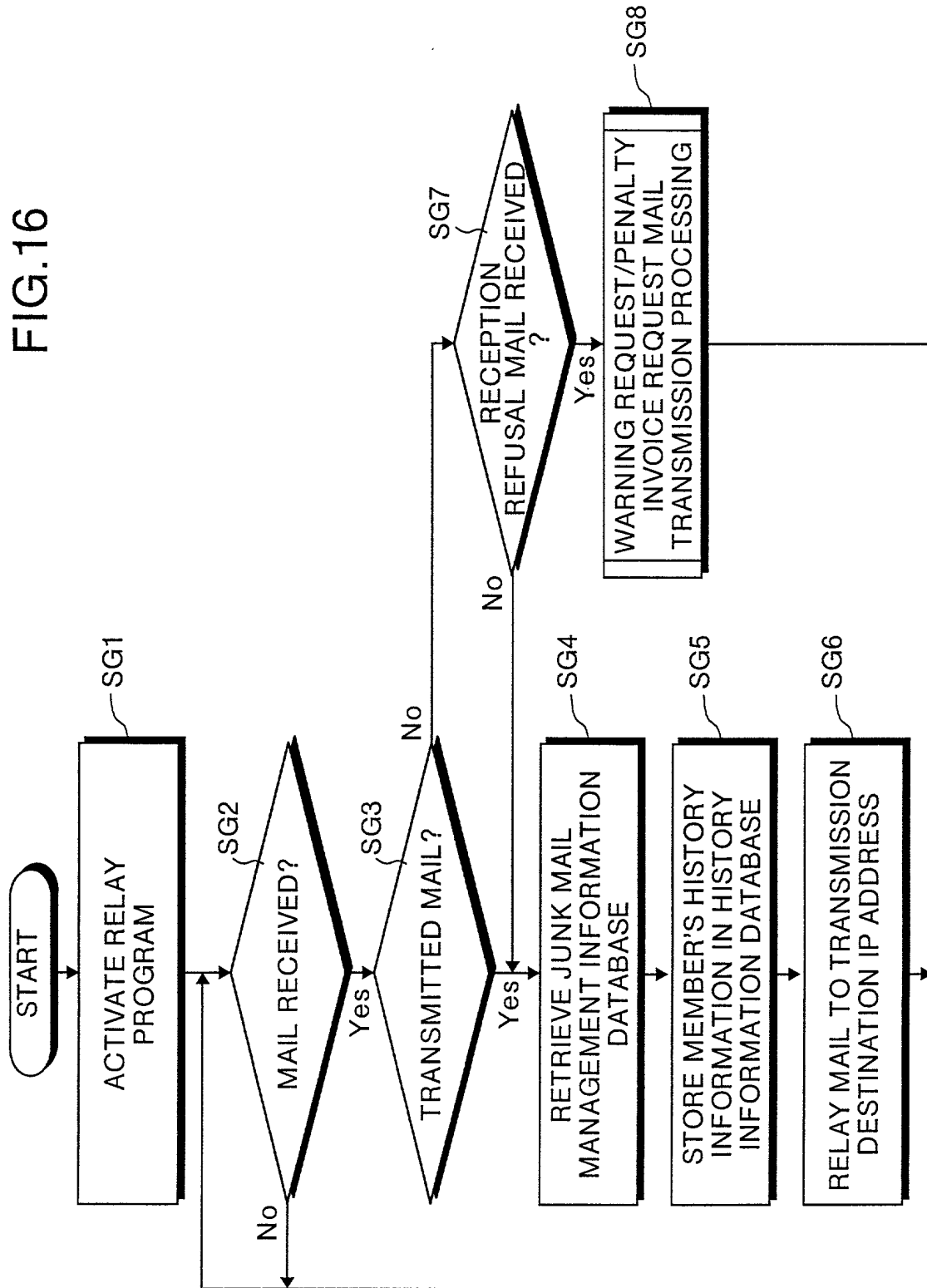
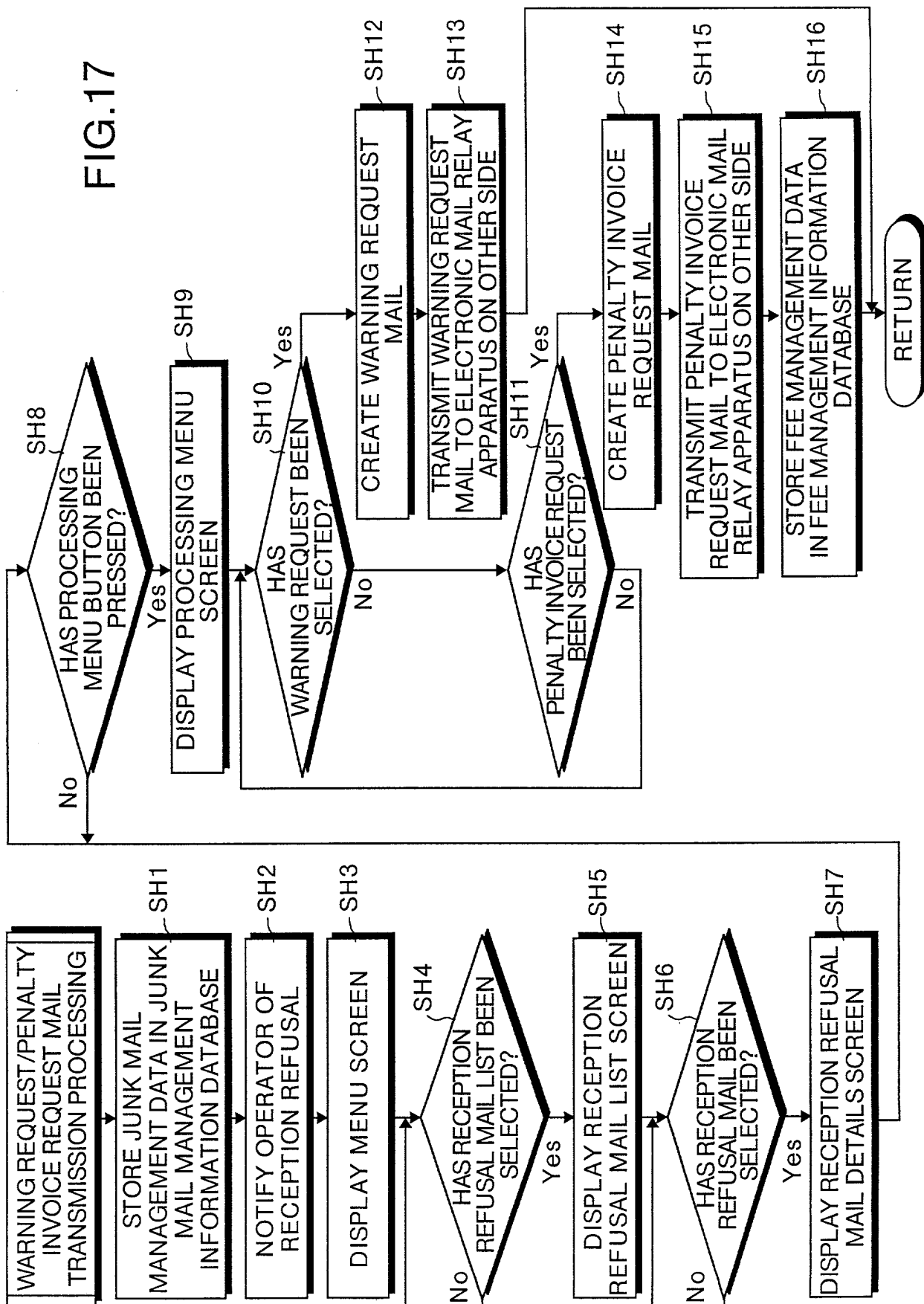


FIG.16







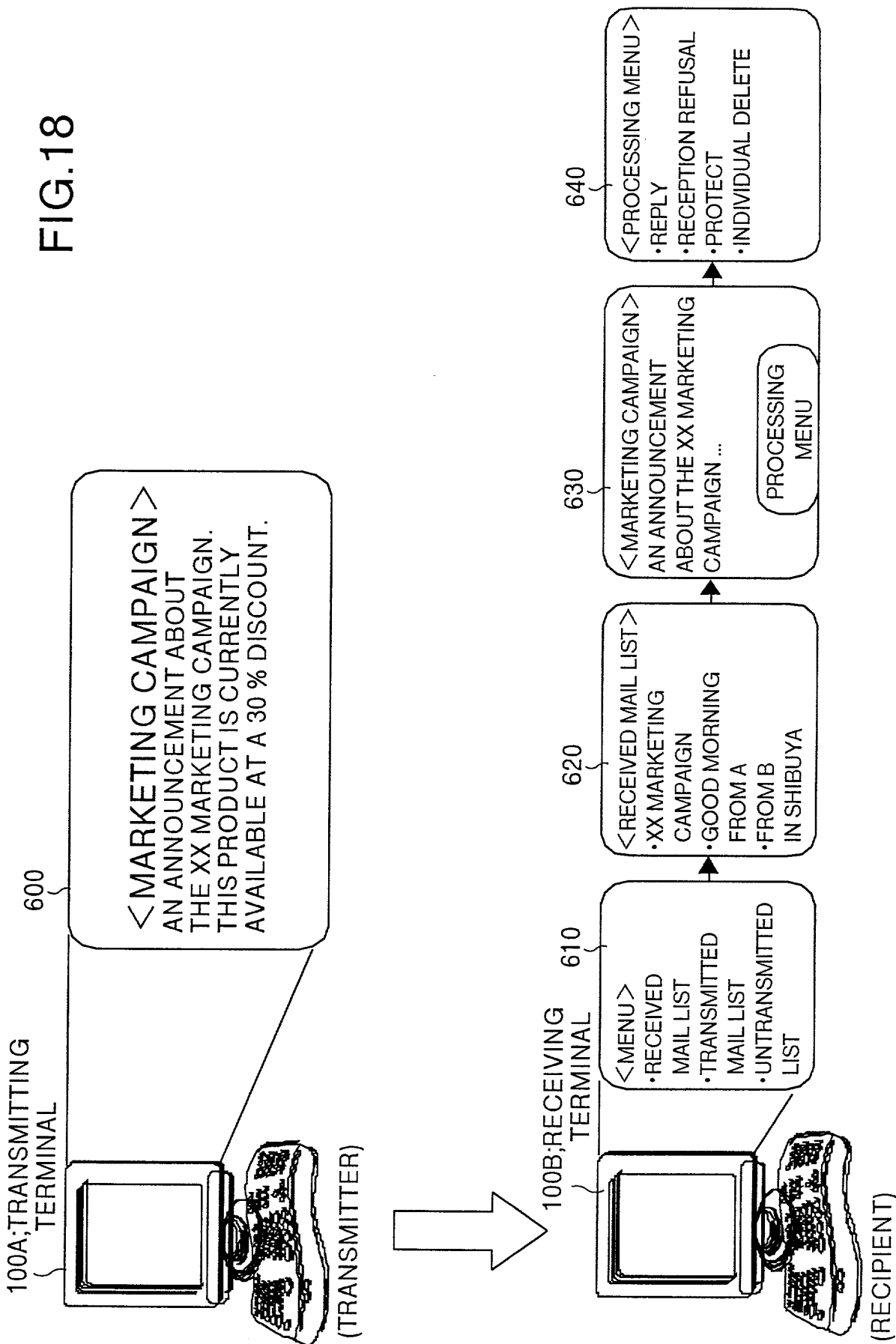


FIG.19

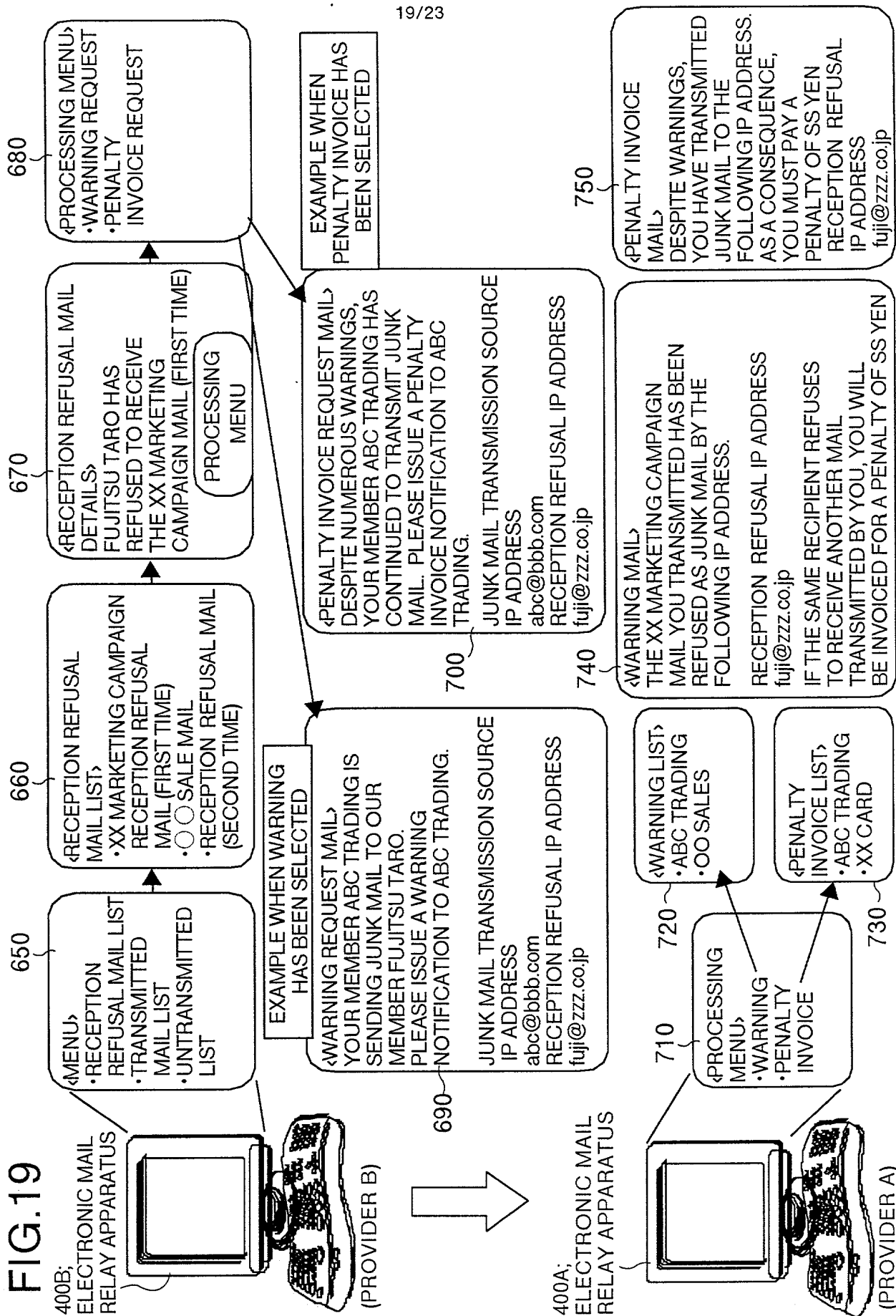


FIG.20

F2

| HEADER SECTION                       |   |                |                                  | DATA SECTION |  |
|--------------------------------------|---|----------------|----------------------------------|--------------|--|
|                                      |   |                |                                  |              |  |
| TRANSMISSION<br>SOURCE<br>IP ADDRESS | TRANSMISSION<br>DESTINATION<br>IP ADDRESS | MAIL<br>NUMBER | MAIL<br>CLASSIFICATION<br>NUMBER | MESSAGE      |  |

- 00 : TRANSMITTED MAIL
- 01 : REPLY MAIL
- 02 : REFUSE TO RECEIVE MAIL THIS TIME ONLY
- 03 : REFUSE TO RECEIVE MAIL HEREFTER

FIG.21

| MAIL<br>CLASSIFICATION<br>NUMBER | MAIL<br>CLASSIFICATION                      | LUMP FEE |
|----------------------------------|---|----------|
| 00                               | TRANSMITTED<br>MAIL                         | X        |
| 01                               | REPLY MAIL                                  | X        |
| 02                               | RECEPTION<br>REFUSAL MAIL<br>THIS TIME ONLY | O        |
| 03                               | REFUSE TO<br>RECEIVE<br>MAIL HEREAFTER      | O        |

FIG.22

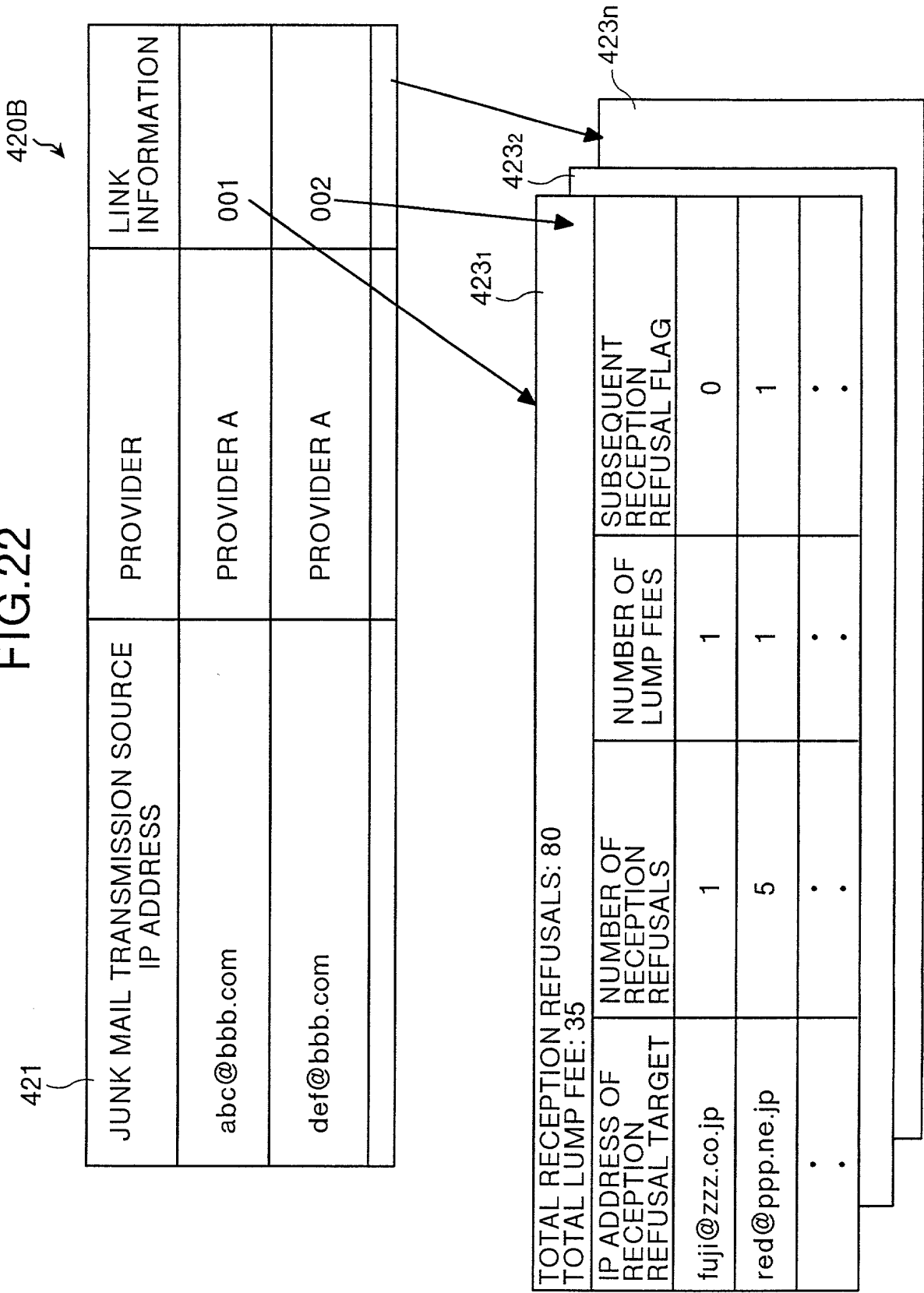


FIG. 23

